

Profiling report

Author: Vladislav Pastushenko

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The inputs, that were used for profiling can be found in the files stdin1.txt, stdin2.txt and stdin3.txt, which contain 10, 100 and 1000 numbers respectively. Positive, negative and floating point numbers were used for profiling purposes.

Program execution time:

stdin1: 0m0.177s

stdin2: 0m0.197s

stdin3: 0m0.467s

stdin1:

Generally, all functions worked very fast (1-2ms).

Processing the addition of all numbers has taken most of the time – 52 ms.

Also buttons “delete” worked quite slowly – 7-8 ms.

However, calculation the difference between two operands has taken 6 ms.

stdin2:

Reading data from standard input has taken 206 ms overall.

Addition and pushing the buttons, representing entering numbers from file, has taken most of the time.

The execution time of other processes has taken less time than when working with stdin1.

stdin3:

If we omit the increased processing time for reading and finding the sum of all numbers, it can be said that the processing time of each other calculation has not changed.

Even exponentiation and square root function have taken 1-2 ms.

It is quite strange that processing calculation the difference of the numbers from stdin3 has taken less time than while processing it from stdin1.

Conclusion:

It is difficult to make conclusions about the necessity of optimization of some specific code sections, because everything works quite quickly overall. Probably, the attention should be paid to the button “delete” and “button_n_Click” handlers.